

Welded, Hermetically Sealed Load Cell



FEATURES

- Capacities 5–100 kg
- Aluminum construction
- Single-point 400 x 400 mm platform
- OIML R60 and NTEP approved
- IP65 protection
- Available with metric and UNC threads

OPTIONAL FEATURE

- EEx ia IIC T4 - hazardous area approval
- FM approval available
- IP67 available

DESCRIPTION

Models 1040 and 1041 are low profile single-point load cells designed for direct mounting of low cost weighing platforms. Their small physical size, combined with high accuracy and low cost, makes these load cells ideally suited for retail, bench and counting scales.

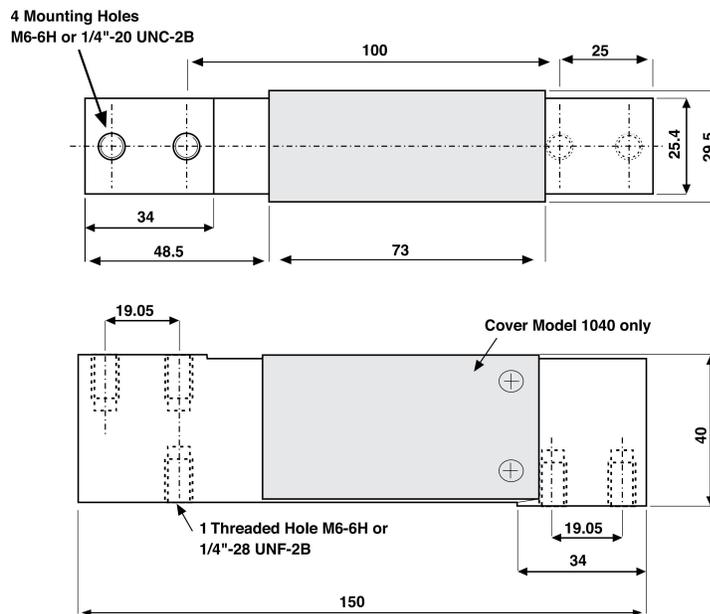
The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

Available in anodized aluminum these high accuracy load cells are approved to NTEP and other stringent approval standards, including OIML R60. For hazardous environments this load cell has EEx ia IIC T4 level of approved option. An optional special humidity resistant protective coating assures long-term stability over the entire compensated temperature range.

APPLICATIONS

- Bench scales
- Counting scales
- Grocery scales

OUTLINE DIMENSIONS in mm



All dimensions in mm

SPECIFICATIONS

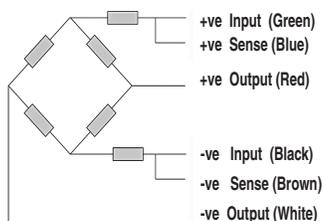
PARAMETER	VALUE			UNIT
Rated capacity—R.C. (E _{max})	5, 7, 10, 15, 20, 30, 50, 75, 100			kg
NTEP/OIML accuracy class	NTEP	Non-Approved	C3*	
Maximum no. of intervals (n)	5000 single	1000	3000	
Y = E _{max} /V _{min}	6000	1400	6000	Maximum available 10000
Rated output—R.O.	2.00			mV/V
Rated output tolerance	0.2			±mV/V
Zero balance	0.2			±mV/V
Zero return, 30 min.	0.0330	0.0300	0.0170	±% of applied load
Total error	0.0200	0.0500	0.0200	±% of rated output
Temperature effect on zero	0.0023	0.0100	0.0023	±% of rated output/°C
Temperature effect on output	0.0010	0.0030	0.0010	±% of rated output/°C
Eccentric loading error	0.0049	0.0074	0.0049	±% of rated load/cm
Temperature range, compensated	-10 to +40			°C
Temperature range, safe	-20 to +70			°C
Maximum safe central overload	150			% of R.C.
Ultimate central overload	300			% of R.C.
Excitation, recommended	10			VDC or VAC RMS
Excitation, maximum	15			VDC or VAC RMS
Input impedance	415±15			Ohms
Output impedance	350±3			Ohms
Insulation resistance	>2000			Mega-Ohms
Cable length	1040: 1.0		1041: 0.5	m
Cable type	6 wire, PVC, single floating screen			Standard
Construction	Plated (anodized) aluminum 1040 aluminum—1041			
Environmental protection	IP65**			
Recommended torque	Up to 30 kg: 7.0		50 kg and up: 10.0	N*m
RecoPlatform size (max)	400 x 400			m

* 50% utilization. Other utilization factors available upon request.

** Available also in IP67

All specifications subject to change without notice.

Wiring Schematic Diagram
(1040 Balanced bridge configuration)



Wiring Schematic Diagram
(1041 Unbalanced bridge configuration)

